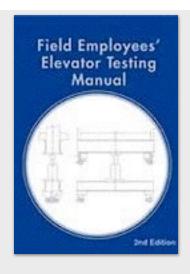
Field Employees' Elevator Testing Course



3.0 contact hours credit (.30 CEUs)



Approved by:

- National Association of **Elevator Contractors for** CET®/CAT®
- NAESA for QEI
- States of: Alabama, Florida, Georgia, Kentucky, Pennsylvania, Virginia, Washington and West Virginia

Program Materials

The **Field Employees' Elevator Testing Course** is based on the book

Field Employees' Elevator Testing Manual, which can be purchased separately from Elevator World.

This handbook was designed to provide a guide to persons assigned the task of performing various tests on electric and hydraulic passenger and freight elevators in the presence of a certified Elevator Inspector. This publication can help with understanding of what is being tested and a safe means to demonstrate the function. Updated to relate to the requirements stated in the ASME A17.1 2007/CSA B44-07 Safety Code for Elevators and Escalators through the ASME A17.1b-2009/CSA B44b-09 Safety Code for Elevators and Escalators and the ASME A17.2-2007 Guide for Inspection of Elevators, Escalators and Moving Walks.

Cost of manual: \$11.50 (non subscriber) or \$9.78 (EW subscribers) Cost of exam: \$70.00 (non subscriber) or \$50.00 (EW subscriber)

Curriculum

The following are some areas of elevator testing that are covered:

- I. CATEGORY ONE PERIODIC TEST OF ELECTRIC ELEVATORS
 - A. Oil Buffer
 - B. Governor
 - C. Safety
 - D. Slack-Rope Devices on Winding Drum Machines
 - E. Normal Terminal Stopping Device
 - F. Final Terminal Stopping Device
 - G. Firefighters' Emergency Operation
 - H. Standby Power
 - I. Power Operation of Door System
 - J. Static Control
 - K. Broken Rope, Tape, or Chain Switch
 - L. Ascending Car Overspeed Protection and Unintended Car Motion Devices
 - M. AC Drives from a DC Source
- II. CATEGORY FIVE PERIODIC TEST OF ELECTRIC ELEVATORS
 - A. Oil Buffer
 - B. Governor
 - C. Safety
 - D. Brake
 - E. Standby Power
 - F. Emergency Terminal Stopping and Speed-Limiting Devices
 - G. Power Opening of Doors or Gates
 - H. Emergency Stopping Distance and Traction Limit
 - I. Emergency Brake

III. ACCEPTANCE TESTING OF ELECTRIC ELEVATORS

A. Oil Buffer
B. Governor
C. Safeties
I. Static Control
D. Brake
J. AC Drives from a
E. Standby Power
DC Source

F. Normal Terminal Stopping
Device

K. Power Opening of
Door or Gates

G. Final Terminal Stopping Device

IV. CATEGORY ONE PERIODIC TEST OF HYDRAULIC ELEVATORS

A. Relief Valve F. Flexible Hose and B. Hydraulic Cylinder Fittings

C. Standby Power G. Pressure Switch

D. Normal Terminal Stopping
Device
H. Governor
I. Safeties

E. Emergency Terminal Stopping Device and Speed-Limiting Devices

V. CATEGORY FIVE PERIODIC TEST OF HYDRAULIC ELEVATORS

A. Governor

B. Safeties

C. Coated Rope Flux Test

E. Plunger Gripper

F. Overspeed Valves

G. Class C2 Load Test

D. Wire Rope Fastenings

VI. ACCEPTANCE TESTING OF HYDRAULIC ELEVATORS

A. Working Pressure

B. Stop Ring

C. Relief Valve

H. Emergency Terminal

Stopping and SpeedLimiting Devices

D. Bottom Plunger Clearance

I. Flexible Hose and Fittings

E. Hydraulic Cylinder J. Pressure Switch

F. Standby Power K. Governor
G. Normal Terminal Stopping L. Safeties

Course Specifics

Device

• Applicants will be allowed one free retake of the exam. Subsequent retakes will be \$25.00 each.

• The test will consist of 56 questions.

- The testing company is **Exambuilder.com**. All testing will be on its server and Elevator World will be charged for each person taking the exam. A database of persons taking the test, along with their scores and dates, will be kept at Exambuilder.com and at Elevator World. All pertinent information will be kept in a database for a minimum of seven years.
- After the test is taken the student will be able to determine immediately if he or she passed or failed. *A passing score is 80%*. A follow-up email will be sent by Elevator World confirming the test score and setting up retakes if needed. A certificate of completion may be printed by the candidate.

Provider Information

Elevator World, Inc. is the largest publisher in the world devoted to the elevator industry: publishing a monthly journal; compiling the Elevator World SOURCE®, the most inclusive directory in the industry; publishing numerous books used for industry education; maintaining ELENET, a biweekly email newsletter; and developing the Elevator World online network, a group of specialized websites with more than 70,000 users a month. Elevator World is the publisher and distributor of the print-based materials for the fouryear Certified Elevator Technician (CET) Education Program. The company is 62 years old and has played a key role in the transfer of knowledge in the verticaltransportation industry.

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